1

- Q. Please provide a copy of the presentation shown to Liberty Consulting on February 26, 2014 related to Newfoundland Power's Outage Response and Crew Efficiencies relating to recent field technology improvements.
- 2 3 4 5 Please refer to the response to Request for Information PUB-NP-121, Attachment A: A. Technology in Operations. 6

# PUB-NP-121 Attachment A Supply Issues and Power Outages on the Island Interconnected System

**Technology in Operations** 



## Technology in Operations

Byron Chubbs, Director, Operations Technology

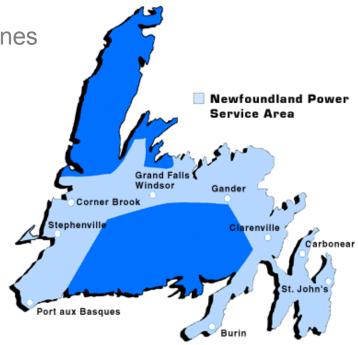
#### **Overview**

- About Newfoundland Power
- New Technologies
- Future Plans



#### **About Newfoundland Power**

- Integrated generation, transmission and distribution utility
- Total assets valued at over \$1.4 billion
- 11,000 km of transmission and distribution lines
- Serves over 252,000 customers
- Employs about 600 skilled men and women



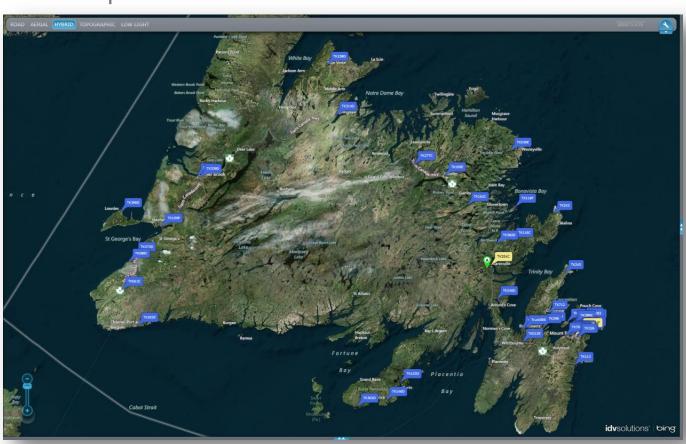
#### **Equipment in Trucks**

- Laptops
- 3G Modems
- GPS Vehicle Tracking

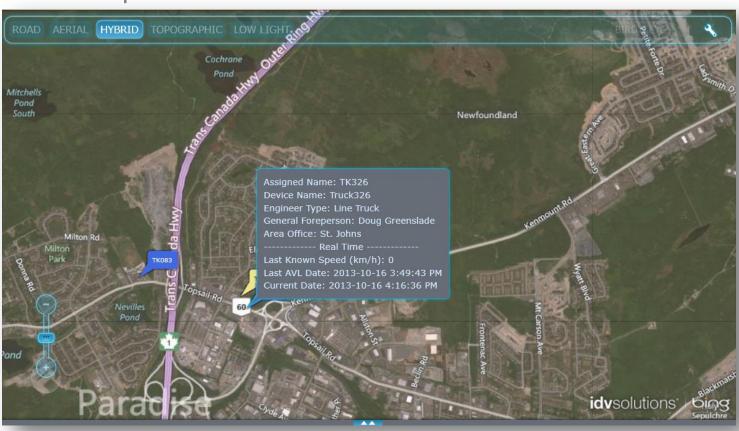




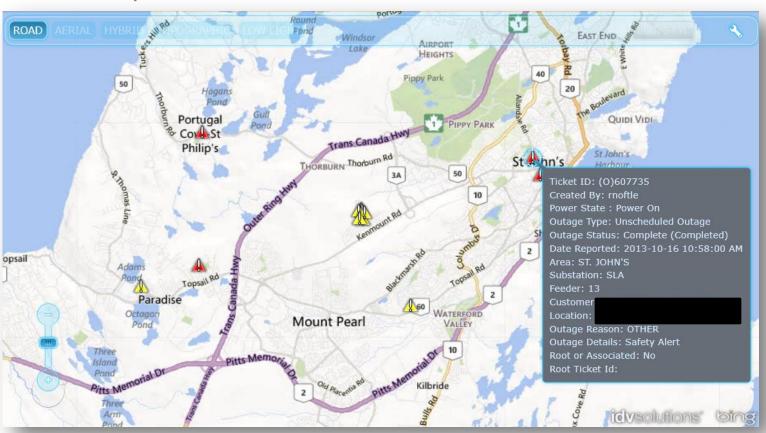
**Operations Maps** 



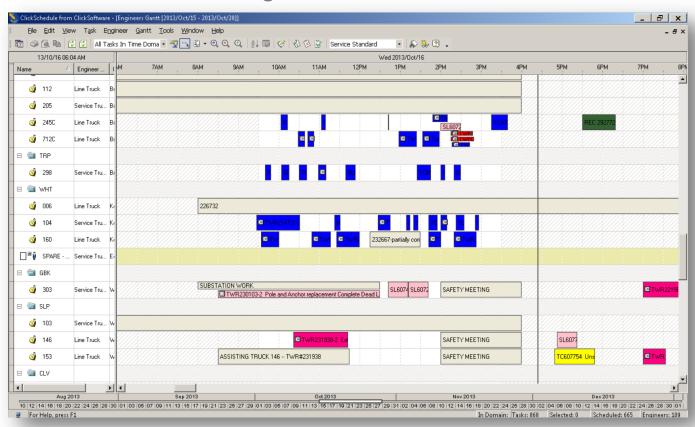
**Operations Maps** 



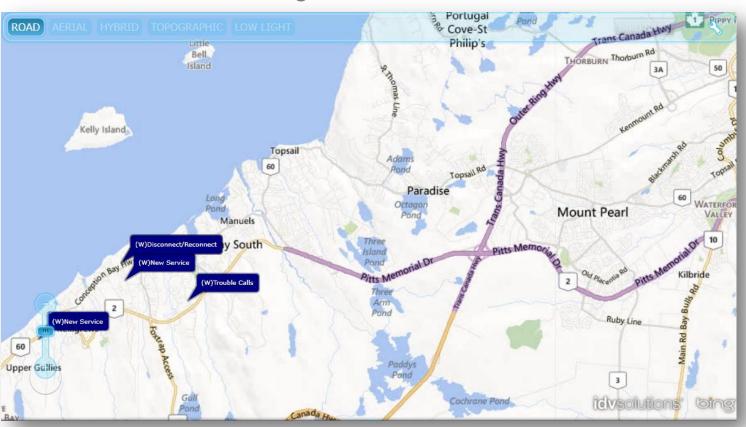
**Operations Maps** 



**Automated Crew Scheduling** 



**Automated Crew Scheduling** 



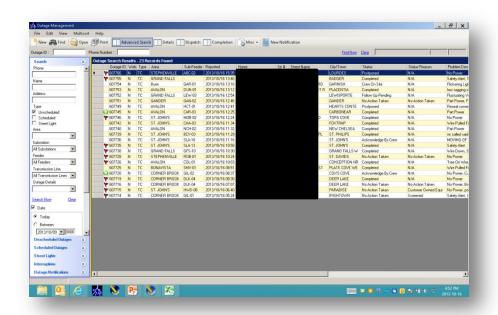
#### **Examples of Efficiency Gains**

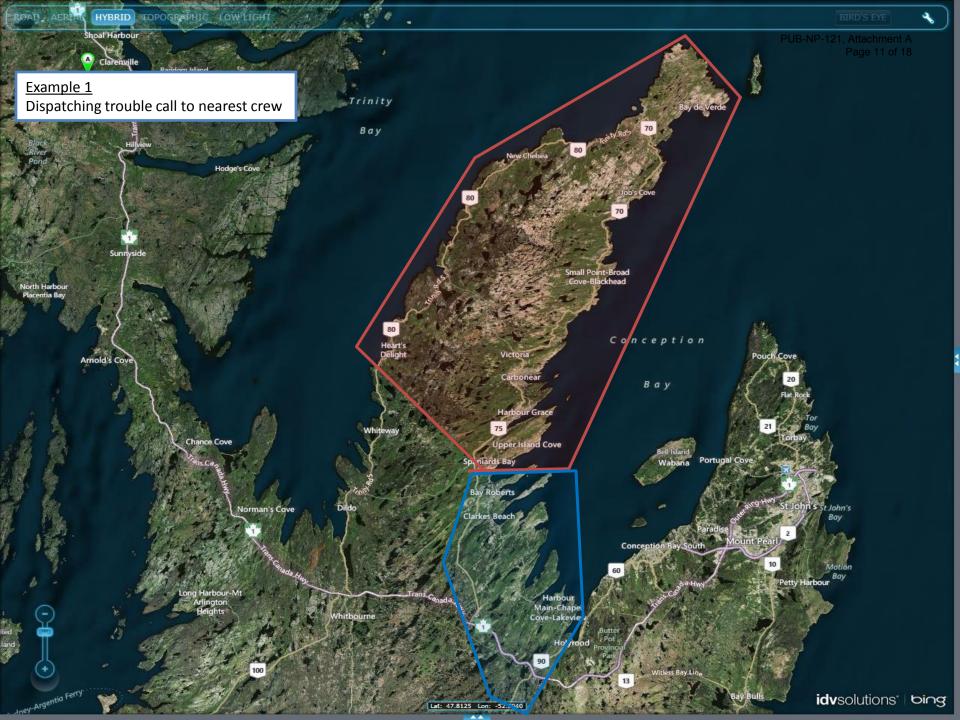
#### Background

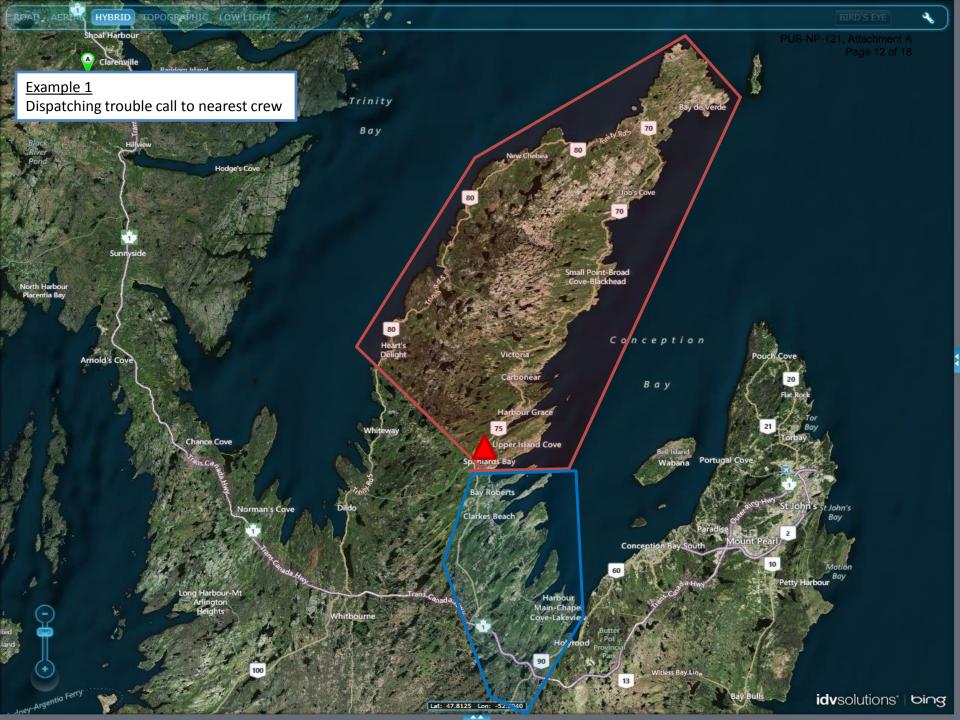
- 8 Defined Operating Areas
- Work Dispatched Locally
- Largely Phone and Paper Based

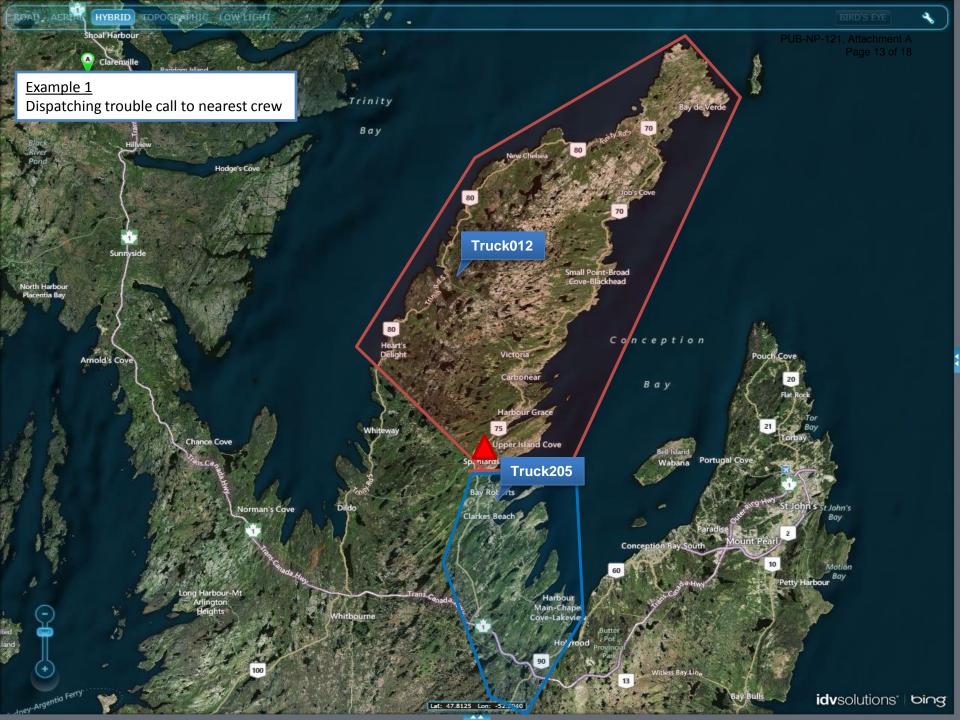
#### 2013 Project

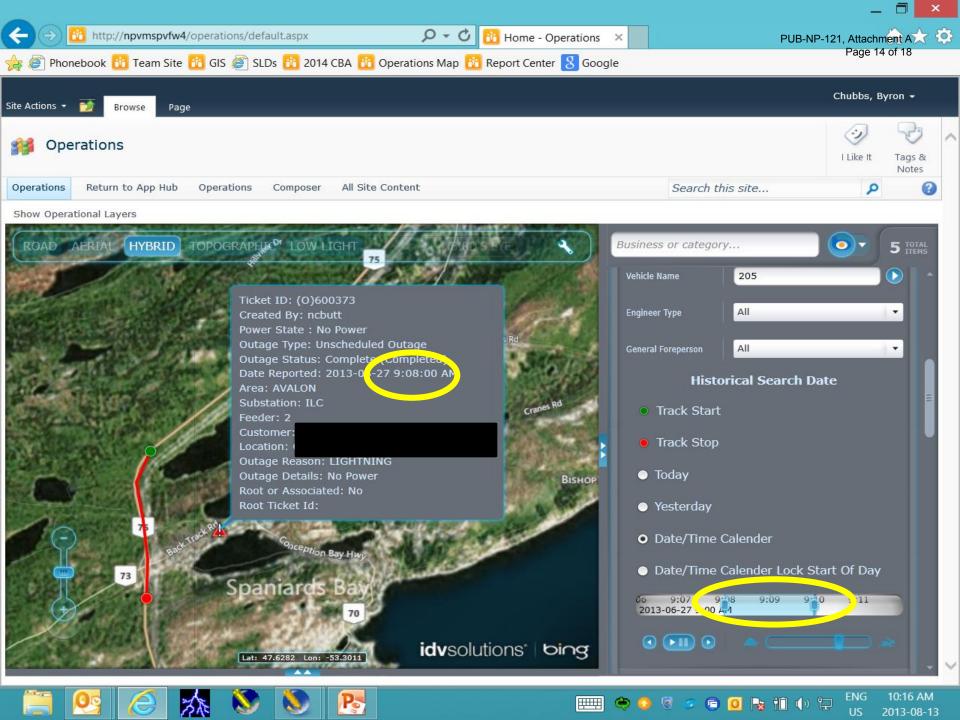
- Modems and GPS Installed
- Software Training with Crews
- Began Dispatching Outage and Streetlight Tickets Electronically

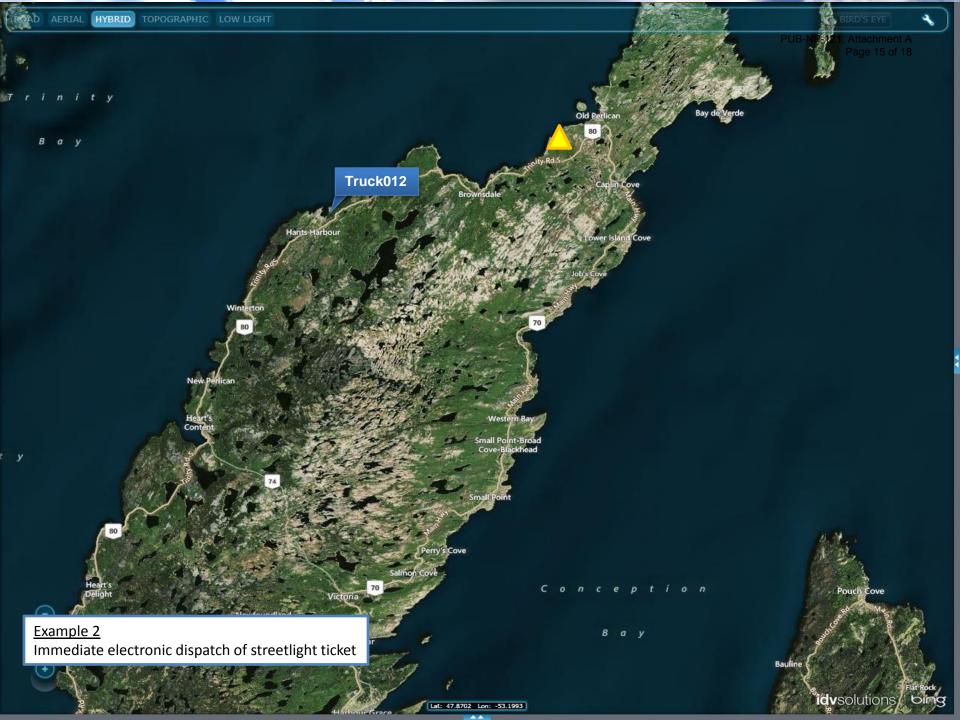


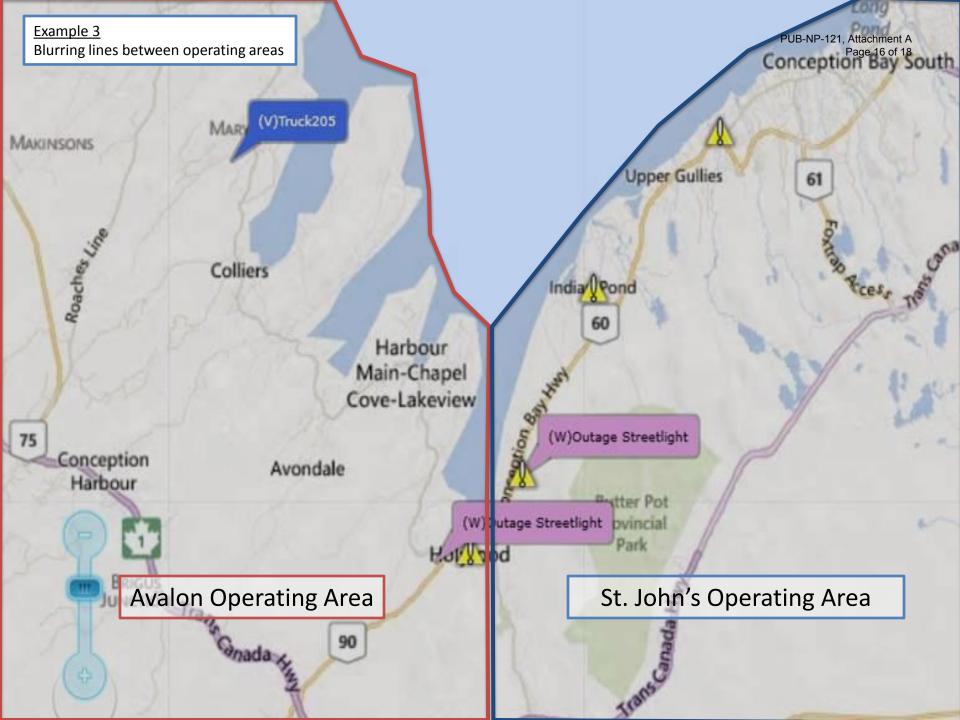


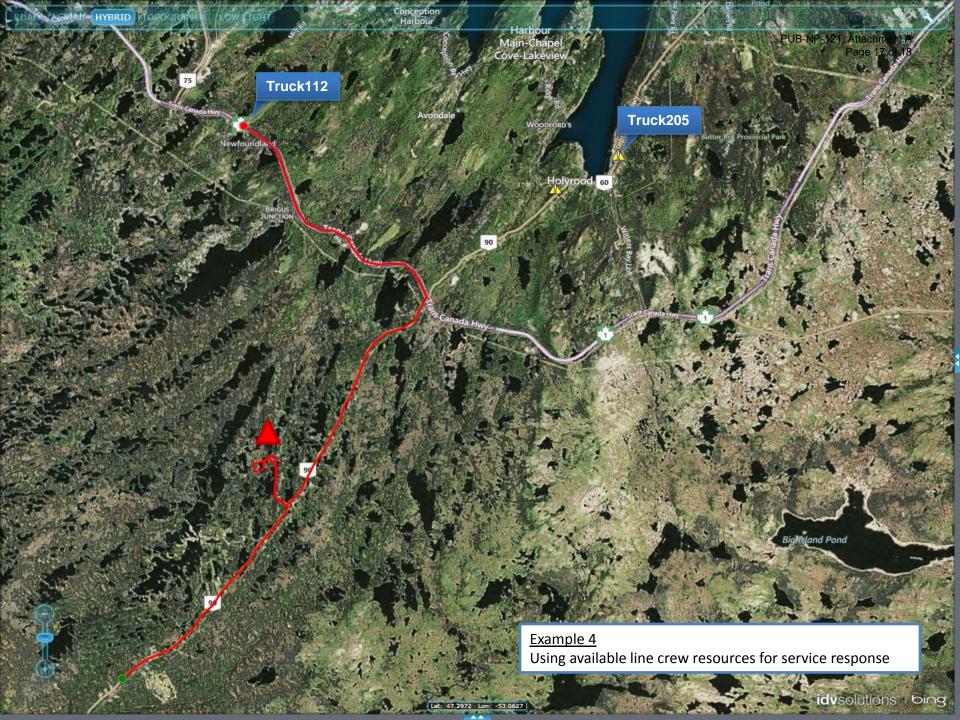












#### **Future Plans**

- Increase Utilization of Geospatial Data
- Centralized Dispatch for Service Work, Line Work,
   Contractors, etc.
- More Technology Tools in the Field, i.e. Smartphones,
   Tablets